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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,959	11/20/2003	Jong Taek Kwak	SUN-0033	9018
7590 01/29/2007 CANTOR COLBURN LLP 55 Griffin Road South			EXAMINER	
			LUU, THANH X	
Bloomfield, CT 06002			ART UNIT	PAPER NUMBER
			2878	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No. Applicant(s)			
		10/717,959	KWAK, JONG TAEK		
		Examiner	Art Unit		
		Thanh X. Luu	2878		
Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
2a)⊠ T 3)□ S	esponsive to communication(s) filed on <u>08 De</u> his action is FINAL . 2b) This ince this application is in condition for allowan osed in accordance with the practice under E	action is non-final. ce except for formal matters, pro			
Disposition	of Claims				
 4) Claim(s) 1,3-7 and 10-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1,3-7,10,11 and 16 is/are allowed. 6) Claim(s) 12,14 and 15 is/are rejected. 7) Claim(s) 13 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application	n Papers	•			
10)□ Th Al R	ne specification is objected to by the Examiner ne drawing(s) filed on is/are: a) accepplicant may not request that any objection to the deplacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example oath or declaration is objected to by the	epted or b) objected to by the E drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority une	der 35 U.S.C. § 119		•		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notice of 3) Information	of References Cited (PTO-892) If Draftsperson's Patent Drawing Review (PTO-948) Ition Disclosure Statement(s) (PTO/SB/08) Ition(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te		

Application/Control Number: 10/717,959 Page 2

Art Unit: 2878

DETAILED ACTION

This Office Action is in response to amendments and remarks filed December 8, 2006. Claims 1, 3-7 and 10-16 are currently pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Oliver et al. (U.S. Patent 6,455,840).

Regarding claims 12 and 15, Oliver et al. disclose (see Fig. 1) an optical pointing system, comprising: an image sensor (array of photodetectors (not shown), within 2) for detecting light reflected from a worktable surface to generate an image signal; a sampling rate and maximum search window variable circuit (14) for inputting the image signal to detect a quantity of light (avg. illumination 8) and to generate a sampling rate control signal (15) for changing a sampling rate; and a sensor circuit (7 and a part of 2) having a movement value calculation circuit for responding to the sampling rate control signal and calculating the movement value of the image signal. The movement value is inherently stored since processing is carried out.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/717,959

Art Unit: 2878

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

4. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oliver et al.

Regarding claim 14, Oliver et al. disclose the claimed invention as set forth above. Oliver et al. do not specifically disclose an A/D converter as claimed. However, A/D converters are notoriously well known. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide an A/D converter in the apparatus of Oliver et al. to obtain digital signals for faster processing or to obtain signals more resilient to noise, thereby improving detection.

Allowable Subject Matter

- 5. Claims 1, 3-7, 10, 11 and 16 are allowed over the prior art of record.
- 6. Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

Art Unit: 2878

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh X. Luu whose telephone number is 571-272-2441. The examiner can normally be reached on M-F 6:00AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 10/717,959

Art Unit: 2878

Page 5

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1900.

Thanh X Luu Primary Examiner Art Unit 2878

01/2007